

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

**Claim 1 (Cancelled)**

**Claim 2 (Previously Presented)** The method of Claim 5, wherein the mesenchymal stem cells are autologous to the hematopoietic progenitor cells.

**Claim 3 (Previously Presented)** The method of Claim 5, wherein the mesenchymal stem cells are allogeneic to the hematopoietic progenitor cells.

**Claim 4 (Currently Amended)** The method of Claim 5 further comprising separating the ~~transduced~~ transformed human progenitor cells from the mesenchymal stem cells.

**Claim 5 (Previously Presented)** A method for transforming hematopoietic progenitor cells to express a protein, comprising co-culturing human hematopoietic progenitor cells with ~~isolated~~ human mesenchymal stem cells isolated from human mesoderm tissue, and transforming the human hematopoietic progenitor cells with a polynucleotide comprising exogenous genetic material encoding a protein in the presence of the isolated human mesenchymal stem cells, wherein said protein is expressed.